Package Contents

DAAG-114 (w/ Audio)

4-Port AcroGear (DAAG-114)	x 1
User's manual	x 1
Rubber foot pad	x 1 set

DADG-122 (Dual Display w/ Audio)

2-Port AcroGear (DADG-122)	x 1
User's manual	x 1
Rubber foot pad	x 1 set

DADG-124 (Dual Display w/ Audio)

4-Port AcroGear (DADG-124)	x 1
User's manual	x 1
Rubber foot pad	x 1 set

Table of Content

Please read this manual thoroughly and follow the **Installation** procedures to prevent any damage to the KVM switch or any connecting device.

∗ *The final specifications are the actual product based.*
∗ *Features and functions may be added or changed since the manual was written.   Please visit our website to download the latest version of manual for reference.*

FC CE VCI **RoHS**

---------------------- *Introduction*

Overview

The AcroGear series, fully compatible with USB specification, are the combination of USB KVM (keyboard/Video/mouse) switch and USB peripherals sharing device. You can easily operate up to 4 PCs, G3/G4 Macs, or Mac Pros respectively from 1 USB keyboard, 1 USB mouse, and 1 DVI monitor saving you space, time, equipment and money.　Its peripheral sharing function enables you to share more USB peripherals among all computers. The "FUNC" button for selecting the audio and adjusting the video signal strength. Yet, the AcroGear series support the audio function (Speaker + MIC) as well. Users can switch among four media sources and enjoy the output on one single display and one set of speakers.

Installation is as easy as connecting USB A-B cables to computers and to the AcroGear series.　Computer selecting is as easy as front panel button pressing.　The built-in USB hub ensures smooth switching from one computer to the other.　The AcroGear series provide the easiest way to manage multiple computers with USB interface and share USB peripherals among computers. No more tangled cables and messy working environment; let the AcroGear series do the computer switching for you.

Features

- Support DVI Single Link with the resolution up to 1920 x 1200 @ 60Hz
- 2/4 computers share up to 4 different USB peripherals
- Front panel push buttons for easy computer selection
- Front panel FUNC button fore easily adjusting the video signal strength
- Front panel FUNC button for easily selecting the audio
- No drivers needed for keyboard and mouse operation
- Support keyboard and mouse plug-n-play
- Buzzer sound for computer switching confirmation
- Activate Auto Scan by front buttons pressing
- Selectable Scan Time interval
- Support the DVI monitor
- Saves time, space, equipment and power
- USB self-power operation
- No software required
- Hotkey functions allow easily computer access
- Support Windows and Mac host systems
- Support dual DVI displays (for DADG-122 / DADG-124 only)

----------------------- *System Requirements*
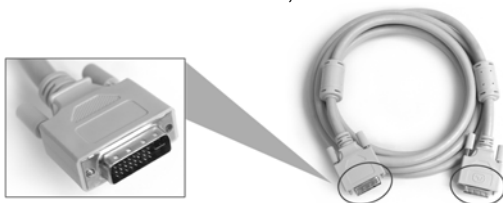
Console side

- One / Two DVI monitor (Two for dual display type)
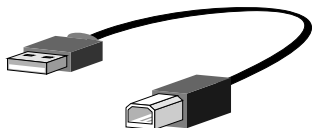- One USB Keyboard
- One USB mouse

Computer side

Each USB-enabled computer must be connected to the DAAG-114 / DADG-124 by
- One DVI cable for monitor, as shown below

- One USB A-B cable with Type-A and Type-B plug for USB devices, as shown below

---------------------- *Installation*

PC BIOS Notice

*The following BIOS setup changes are necessary for PC users and **not** necessary for Mac users:*

1. In STANDARD CMOS, set HALT ON ERROR to ALL BUT KEYBOARD.
2. In PNP AND PCI SETUP, set PNP OS INSTALLED to YES and set USB IRQ to ENABLED.
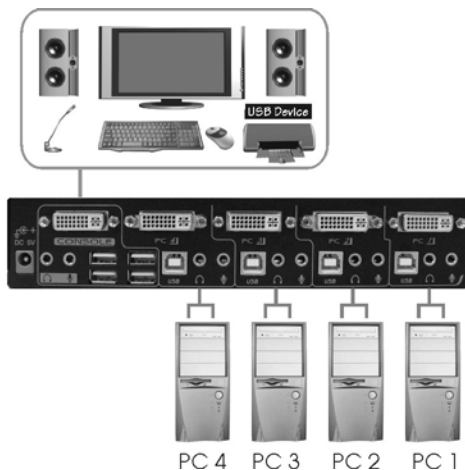
Note: The AcroGear series are applicable for USB keyboard and mouse switching from one computer to the other.   If you plan to share other peripherals such as a CCD camera, printer or scanner, it is required to shut down the driver of the computer before switching to another computer.   Because port switching is equivalent to unplugging the USB cable from one computer and plugging it to another one, some USB drivers check attached USB peripherals all the time and do not accept plug-n-play function.
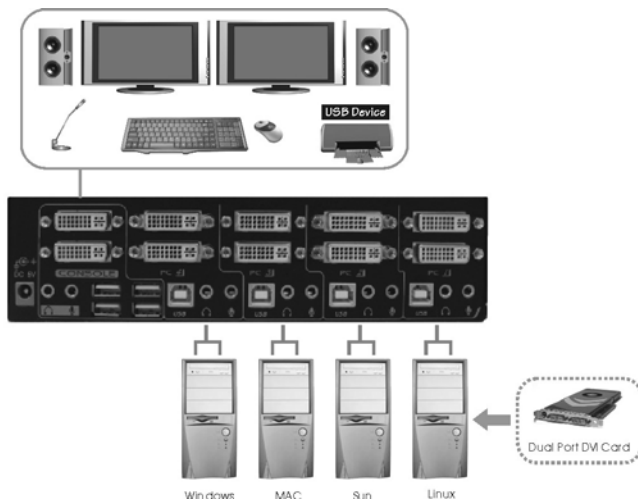
Console Connection

Before installation, make sure all devices and computers to be connected to the unit have been turned off.

Plug a monitor to the Console's DVI port; plug a USB keyboard and a USB mouse to any two of the Console's USB ports as shown below.
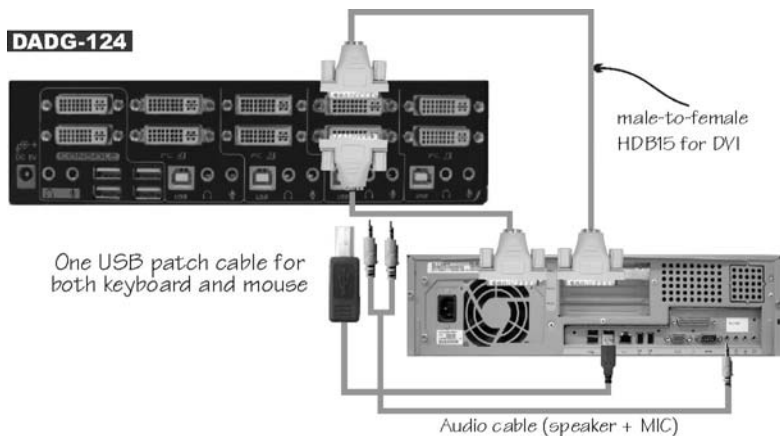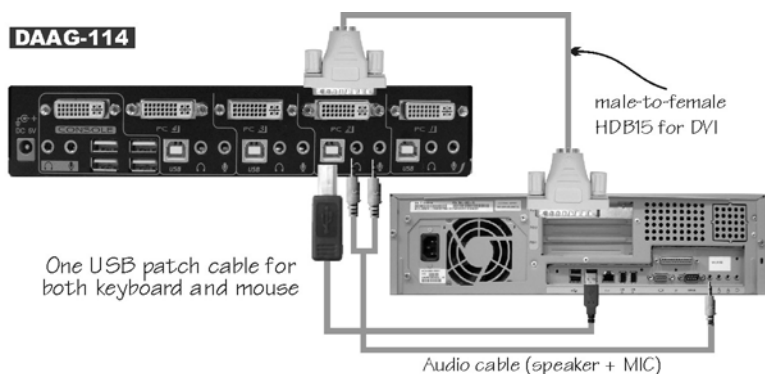
Computer Connection

Use a male-to-male cable to connect from a computer's DVI port to DAAG-114 / DADG-124 DVI port of **PC** side.

Use a USB A-B Cable to connect from the DAAG-114 / DADG-124 **USB** port (B connector, square connector) to the USB port on the corresponding computer (A connector, flat connector), as shown below.

---------------------- *Operations*

Front Panel

1. On-line LED & Selected LED
   When the LED turns green, the connected computer is powered-on.   When a computer is selected, its corresponding red LED illuminates.
2. Pushbuttons
   Each computer has a button associated with it on the front panel for selection.

Auto Scan

Auto Scan automatically scan through computers one by one in a fixed interval (see *Scan Time* below).

To activate *Auto Scan*, press down front panel push buttons "3" and "4" simultaneously.   The port LED flashes during *Auto Scan*.   *Auto Scan* is effective for powered-on computers only.   To exit the *Auto Scan* mode, just tap any one of the pushbuttons.

Note: keyboard and mouse are not operable during Auto Scan.

Scan Time

It sets the scan interval for *Auto Scan*.   The Scan Time options are 3, 8, 15 and 30 seconds.

To change the *Scan Time* interval, press both front panel buttons "1" and "2" simultaneously.   The DAAG-114 / DADG-124 beep 1, 2, 3 or 4 times for *Scan Time* of 3, 8, 15 or 30 seconds respectively.

Note: *Scan Time is automatically set to the default of 3 seconds when the units loses power.*

Adjust the Video Signal

To adjust the optimal video signal strength corresponding to the length or quality of DVI cable, the user can press "FUNC" button combining with the other pushbuttons.

Step 1. Press "FUNC" button three times, the LED of
"FUNC" will flash one time per second.

Step 2.

■ Press pushbutton "1" one or two times for adjusting the equalization of selected port input video strength with one beep (normal) or two beeps (enhance) respectively.

<div align="center">or</div>

■ Press pushbutton "3" one or two times for adjusting the output current of selected port with one beep (normal) or two beeps (enhance) respectively.

<div align="center">or</div>

■ Press pushbutton "4" one, two, three, or four times for adjusting the output emphasis of selected port with one beep (no pre-emphasis), two beeps (low pre-emphasis), three beeps (medium pre-emphasis), or four beeps (high pre-emphasis).

Step 3. Once the setting is finished, press "FUNC" button one time to exit the setting.

Select the Audio Signal

To select the audio signal from any port of 4 connected computers, the user can press "FUNC" button combining with the other pushbuttons.

Step 1. Press and hold "FUNC" button. Either all of 4 green LEDs light up or just one green LED lights up. All of 4 green LEDs light up means the audio port and the selected computer port are the same; we call it as "tracking mode". On the other hand, just one green LED lights up (the selected audio port) means the audio port is different from the selected computer port; we call it as "non-tracking mode".

Step 2.

■ While the "FUNC" button is holding, press pushbutton "1" for selecting audio port 1.
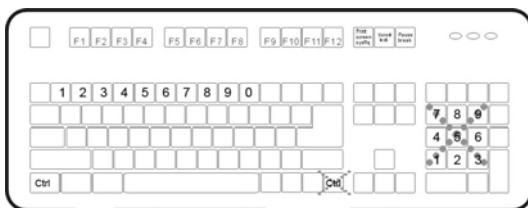
<div align="center">or</div>

- While the "FUNC" button is holding, press pushbutton "2" for selecting audio port 2.

<center>or</center>

- While the "FUNC" button is holding, press pushbutton "3" for selecting audio port 3.

<center>or</center>

- While the "FUNC" button is holding, press pushbutton "4" for selecting audio port 4.

<center>or</center>

- While the "FUNC" button is holding, press pushbutton "1" AND "2" for entering the tracking mode.

Step 3. Once the setting is finished, release "FUNC" button to exit the setting.

Hotkey Commands

The Hot-key command is a short keyboard sequence to select a computer, to activate computer scan, etc.   KVM Switch interprets keystrokes for hot-keys all the time.   A hot-key sequence starts with two left   **Ctrl**   keystrokes (**in 0.2 seconds**) followed by one or two more keystrokes.   A built-in buzzer generates a high-pitch beep for correct hot-key command; otherwise, one low-pitch beep for error and the bad key sequence will not be forwarded to the selected computer.

NOTE: By pressing left **Shift** + **Num Lock** + **Num Lock** + left **Ctrl** users can enable/ disable the hotkey commands.

● To select a computer:

<center>*Left* **Ctrl** + *Left* **Ctrl** + **1**</center>

Selects the computer at port 1.

<center>*Left* **Ctrl** + *Left* **Ctrl** + **2**</center>

Selects the computer at port 2

Do not use the keypad at the right of the keyboard.

● To start *Auto Scan*, automatically scan <u>power- on</u> computers one by one at a fixed interval:

<center>8</center>

Left **Ctrl** + *Left* **Ctrl** + **F1**

To abort the *Auto Scan* mode, press the left **Ctrl** key twice. When *Auto Scan* detects any keyboard or mouse activity, it suspends the scanning till the activity stops; it then resumes with the next computer in sequence. The length of the *Auto Scan* interval (*Scan Rate)* is adjustable, see below.

● *Manual Scan* enables you to manually switch back and forth between underline power-on computers.

Left **Ctrl** + *Left* **Ctrl** + **F2**

Press ↑ or ↓ to select the previous or the next computer in sequence. And, press any other key to abort the *Manual Scan*.

● To adjust Scan Rate, this sets the duration before switching to the next computer in Auto Scan:

Left **Ctrl** + *Left* **Ctrl** + **F3**

The KVM Switch generates 1 to 4 beeps indicating scan interval of *3*, *8*, *15* and *30* seconds respectively.

● *Audio Stick*

An optional multimedia module can be LINKed to the back of each KVM switch for selecting microphone and stereo speaker signals. There are two options for *Audio Stick*: **ON** and **OFF**. When set to '**ON**', audio selection follows computer selection. When set to '**OFF**', audio selection stops to follow computer selection. It is useful if you want to listen to a particular computer's audio signal while operating other computers.

Left **Ctrl** + *left* **Ctrl** + **F5**

The KVM switch beeps once or twice corresponding to *ON* and *OFF* respectively.

Enforce the audio followed with the selected computer by pressing the following hotkey

Left **Ctrl** + *left* **Ctrl** + **A**

● *USB-Port Rule*

There are two options for *USB-Port Rule*: **ON** and **OFF**. When set to '**ON**', USB-Port selection follows computer selection. When set to '**OFF**', USB-Port selection stops to follow computer selection.

1. USB 1: pressing the hotkey below to turn ON/OFF the USB-Port Rule

Left **Ctrl** + *left* **Ctrl** + **F7**

Enforce the USB followed with the selected computer by pressing the following hotkey

Left **Ctrl** + *left* **Ctrl** + **U**

2. USB 2: pressing the hotkey below to ON/OFF the USB-Port Rule

Left **Ctrl** + *left* **Ctrl** + **F8**

ON: USB-Port selection followed with computer selection

OFF: USB-Port selection followed with USB 1

NOTE: Please make sure that USB device linking procedure has accomplished before switching to the next computer.

Alternative Hotkey Commands

Users may Press Scroll Lock twice instead. For example,

● To select a computer:

Scroll Lock + **Scroll Lock** + **1**

Selects the computer at port 1.

Scroll Lock + **Scroll Lock** + **2**

Selects the computer at port 2

For those keyboards didn't have or support Scroll Lock, please press and HOLD the left Shift and then press Num Lock twice instead. For example,

● To select a computer:

Left **Shift** + **Num Lock** + **Num Lock** + **1**
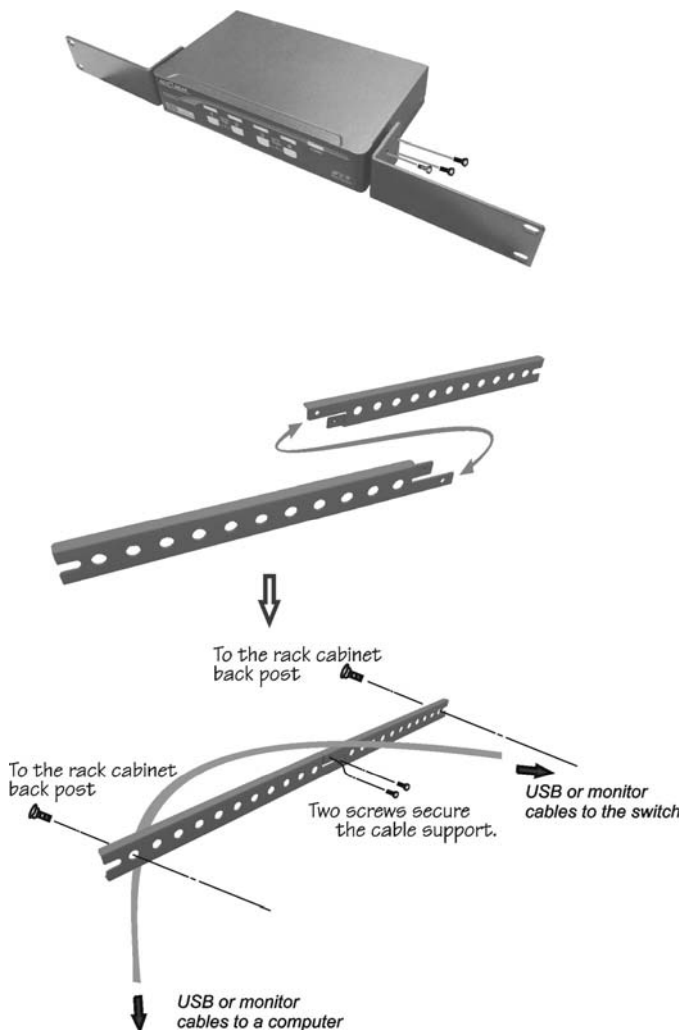
Selects the computer at port 1.

Left **Shift** + **Num Lock** + **Num Lock** + **2**

Selects the computer at port 2

NOTE: **Shift** means press and hold Shift key

----------------------- Rack Mount Kit

The figure below shows how to attach optional mounting brackets and cable support (RMK04) to the DAAG-114 / DADG-124 for standard 19-inch rack cabinet.

To the rack cabinet back post

To the rack cabinet back post

USB or monitor cables to the switch

Two screws secure the cable support.

USB or monitor cables to a computer

---------------------- *Appendices*

• **Specifications**

Specification		DAAG-114	DADG-124
Console Port		1	1
Computer Port		4	4
Front panel push button		4	4
Front panel FUNC button		1	1
Hot plug-and-play		Yes	
Automatic scan interval		3, 8, 15, 30 seconds	
Cable Length (Max)		3M(10ft) for USB	
Computer ON-LINE LED		4	4
Computer Selected LED		4	4
Computer Interface	KB	USB Type B x 4	
	MS		
	Monitor	DVI female x 4	DVI female x 8
	Audio Jack (Speaker+MIC)	4	
Console Interface	KB	USB Type A x 4	
	MS		
	Monitor	DVI female x 1	DVI female x 2
	Audio Jack (Speaker+MIC)	1	
Hot Key		Yes	
Resolution		1920 x 1200	
DDC2B Support		Yes	
H x W x D (mm) (in.) size		44 x 220 x 130 1.7 x 8.7 x 5.1 Compact	

• **Troubleshooting:**

Ensure that all cables are well seated. Label the cable for each computer to avoid confusion when connected to the unit.

The unit have built-in power protection that works automatically when needed. When it works, USB communication halts and the only way to restart the unit properly is to remove all power sources (USB patch cables and power adapter), wait a few seconds, apply power sources and start again.

Symptom	*Causes*	*Solutions*
Keyboard or mouse does not work	■ In Auto Scan, keyboard and mouse are not operable. ■ Too many keyboards or mouse drivers installed.	■ Press any front button to select a computer, then use the keyboard and mouse. ■ Remove ALL unnecessary keyboards and mouse drivers.
Newly installed USB device does not work.	■ Improper device driver. ■ Device consumes too much power. ■ Device consumes too much power instantaneously. ■ Improper device initialization. ■ When DAAG-114 / DADG-124 work under self-power, i.e., no power supply added, it supports max of 100mA as per USB spec.	■ Re-install device driver. ■ The device should be self-powered, add a power adapter to the device. ■ If the device does not provide power jack, add a power adapter with DC5V of less than 1A current rating to the DAAG-114 / DADG-124. ■ Be sure the USB cable is well seated to ensure communication. ■ Remove all power sources to the DAAG-114 / DADG-124 by unplugging all USB A-B cables and the power adapter; then start all over again. ■ Select the computer by pushbutton, restart the computer and try again.
Computer hangs up while switching computer.	■ Device initialization takes too much time.	■ Wait at least 5 seconds before computer switching to ensure proper USB communication. ■ Turn off device driver (not keyboard nor mouse) before computer switching.
Auto Scan does not switch PC automatically and DAAG-114 / DADG-124 beeps	■ All PCs are off or only one PC is turned on. Scan mode works for power-on computers only.	■ Turn computers on.

The resolution is not good.	Improper video settings of DAAG-114 / DADG-124	To adjust the optimal video signal strength corresponding to the length or quality or DVI cable, the user can press "FUNC" button combing with the other pushbuttons.

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